

Substitute for Form 1449 A &amp; B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Complete if Known**

Application Number	10/813,269
Confirmation Number	5356
Filing Date	March 31, 2004
First Named Inventor	Lawrence SHAH
Art Unit	2828
Examiner Name	Not yet assigned
Attorney Docket Number	A8700

Sheet 1 of 4

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
DW		US 5,720,894	A	02-24-1998	Neev et al.
		US 5,978,538	A	11-02-1999	Miura et al.
		US 6,146,375	A	11-14-2000	Juhasz et al.
		US 6,268,586	B1	07-31-2001	Stuart et al.
		US 6,285,002	B1	09-04-2001	Ngoi et al.
		US 6,312,768	B1	11-06-2001	Rode et al.
		US 6,333,485	B1	12-25-2001	Haight et al.
		US 6,392,683	B1	05-21-2002	Hayashi
		US 6,407,361	B1	06-18-2002	Williams

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			

**NON PATENT LITERATURE DOCUMENTS**

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DW		Manufacturing of High Quality Integrated Optical Components by Laser Direct-Write (M103) Ph. Bado, A. A. Said, Mark Dugan, Translume, 755 Phoenix Drive, Ann Arbor, Michigan 48108	
		A Study of the Effect of Weld Parameters on Strengths of Clearwelded TM Thermoplastics (602) Nicole M. Woosman and Michelle M. Burrell Gentex Corporation Carbondale, Pennsylvania, USA	
		Writing of permanent birefringent microlayers in bulk fused silica with femtosecond laser pulses L. Sudrie, M. Franco, B. Prade, A. Mysyrowicz* Received 9 August 1999; accepted 22 September 1999	
		Burst-mode femtosecond ablation in Copper and Lexan Craig W. Siders, Martin Richardson, Nikolai Vorobiev, Ty Ohlmstead, Rob Bernath, and Tina Shih The School of Optics/CREOL, University of Central Florida, Orlando Florida 32816-2700	
		Femtosecond Laser Fabricated Nanostructures in Silica Glass R.S. Taylor, C. Hnatovsky, E. Simova, Institute for Microstructural Sciences, National Research Council; D.M. Rayner, V. R. Bhardwaj and P.B. Corkum Steacie Institute for Molecular Sciences, National Research Council	
		Femtosecond laser ablation of silicon-modification thresholds and morphology J. Bonse*, S. Baudach, J. Kruger, W. Kautek, M. Lenzner Laboratory for Thin Film Technology, Federal Institute for Materials Research and Testing (BAM), Unter den Eichen 87, 12205 Berlin Germany, Received 4 Dec. 2000/Revised version: 29 March 2001/Published online: 20 June 2001 - © Springer-Verlag 2001	

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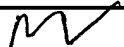
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D ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		US 6,421,573	B1	07-16-2002	Kfka et al.
		US 6,552,301	B2	04-22-2003	Herman et al.
		US 6,573,026	B1	06-03-2003	Aitken et al.
		US 6,574,250	B2	06/03/2003	Sun et al
		US 2003/0035640	A1	02/20/2003	Dugan et al
		US 2003/0099452	A1	05/29/2003	Borrelli et al
		US 2003/0110810	A1	06/19/2003	Dunn et al
		US 2002/0076655	A1	06/20/2002	Borrelli et al
		US 2002/0193704	A1	12/19/2002	Goldstein et al

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D ↓ ↓ ↓ ↓ ↓		Femtosecond writing of active optical waveguides with astigmatically shaped beams Roberto Osellame, Stefano Taccheo, Marco Marangoni, Roberta Ramponi, and Paolo Laporta, Dario Polli, Sandro De Silvestri, and Giulio Cerullo, Received November 19, 2002; revised manuscript received February 7, 2003	
		Laser Welding of Plastics - Process Selection Software (601) Ian Jones and Sam Rostami Polymer Group, TWI, Cambridge UK	
		Proceedings of the International Tribology Conference Nagasaki, 2000 MICROTTEXTURING OF FUNCTIONAL SURFACES FOR IMPROVING THEIR TRIBOLOGICAL PERFORMANCE Henry HAEFKE, Yvonne GERBIG, Gabriel DUMITRU and Valerio ROMANO	
		New low temperature femto-second laser annealing method for TFT fabrication technology Alexei K. Zaitsev, Yi-Chao Wang and Ci-Ling Pan; Jia-Min Shieh	
		Processing of multi-layer systems using femtosecond, picosecond, and nanosecond laser pulses at different wavelengths David Ashkenasi*, Arkadi Rosenfeld** Laser-und Medizin-Technologie GmbH Berlin, Germany; Max Born Berlin, Germany	
		Ripples revisited: non-classical morphology at the bottom of femtosecond laser ablation craters in transparent dielectrics Jurgen Reif*, Florenta Costache, Matthias Henyk, Stanislav V. Pandelov	

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DW ↓ ↓ ↓ ↓ ↓ ↓ ↓		US RE37,585	E	03/19/2002	Mourou et al
		US 6,372,103	B1	04/16/2002	Perry et al
		US 6,414,320	B1	07/02/2002	Ishikawa et al
		US 6,341,009	B1	01/22/2002	O'Connor et al
		US			
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DW ↓ ↓ ↓ ↓ ↓ ↓		CW11 Self-organized form birefringence in glass irradiated by intense ultrashort light pulses P.G. Kazansky, J. Mills, E. Bricchi, J.J. Baumberg, J. Qiu and K. Hirao	
		CFF2 Single-pulse and 'pulsetrain-burst' (>100 MHz) effects in ultrafast laser processing of metals, glasses, and bio-tissues Santiago Camacho-Lopez, Rodger Evans, Catherine Greenhalgh, Cristian Torti, John Robertson, Robin Marjoribanks, Peter Herman, Marc Nantel, Lothar Lilge	
		Proc. SPIE Vol. 4274 STRUCTURING SILICON WITH FEMTOSECOND LASERS H.K. Tonshoff, A. Ostendorf, T. Wagner Laser Zentrum Hannover e. V. ( <a href="http://www.lzh.de">www.lzh.de</a> ), Hollerithallee 8, D-30419 Hannover, Germany	
		Optics Communications 191 (2001) 333-339 Study of damage in fused silica induced by ultra-short IR laser pulses L. Sudrie, M. Franco, B. Prade, A. Mysyrowicz* Received 15 January 2001; accepted 28 February 2001	
		Applied Physics Letters, Volume 82, Number 17, 28 April 2003, Surface nanostructuring of borosilicate glass by femtosecond nJ energy pulses	
		Ultra-fast laser-induced processing of materials: fundamentals and applications in micromachining Tae Y. Choi, Anant Chimmalgi and Constantine P. Grigoropoulos Department of Mechanical Engineering, University of California, Berkeley	

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		US			
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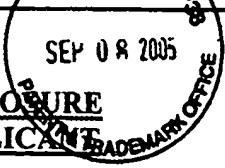
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DM		Ultrafast pulse train micromachining Ihtesham H. Chowdhury, Xianfan Xu, Andrew M. Weiner, School of Mech. Engg., Purdue Univ., W. Lafayette, IN, USA 47907-1288 School of Elec. and Comp. Engg., Purdue Univ., W. Lafayette, IN, USA 47907-1285	
VR		Ultra-High Resolution Index of Refraction Profiles of Femtosecond Laser Modified Silica Structures, R.S. Taylor, C. Hnatovsky, E. Simova, D.M. Rayner, V.R. Bhardwaj and P.B. Corkum Abstract: Ultra-high spatial resolution index of refraction profiles of femtosecond laser modified structures in silica glass...	

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DW		US RE37,585	E	03/19/2002	Gerard Mourou
		US 6,333,485	B1	12/25/2001	Richard Alan Haight
		US 6,268,586	B1	07/31/2001	Brent C. Stuart
		US 5,720,894		02/24/1998	Joseph Neev
		US 6,552,301	B2	04/22/2003	Peter R. Herman
		US 6,574,250	B2	06/03/2003	Yunlong Sun
		US 6,421,573	B1	07/16/2002	James D. Kafka
		US 6,285,002	B1	09/04/2001	Bryan Kok Ann Ngoi
		US 2002/0023903		02/28/2002	Bryan Kok Ann Ngoi
		US 6,341,009	B1	01/22/2002	John O'Connor
		US 6,146,375		11/14/2000	Tibor Juhasz
		US 2002/0193704	A1	12/19/2002	Peter Goldstein
		US 6,414,320	B1	07/2/2002	Muriel Y. Ishikawa
		US 5,978,538		11/2/1999	Kiyotaka Miura
		US 2002/0076655	A1	06/20/2002	Nicholas F. Borrelli
V		US 2003/0099452	A1	05/29/2003	Nicholas F. Borrelli
		US 2003/0035640	A1	02/20/2003	Mark Dugan
		US 6,573,026	B1	06/3/2003	Bruce G. Aitken
		US 2003/0110810	A1	06/19/2003	Douglas Scott Dunn
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DW		Tae Y. Choi, "Ultra-fast laser-induce processing of materials: fundamentals and applications in micromachining." SPIE Proceedings Vol 4637 (2002) pp. 204-211	
		Ihtesham H. Chowdhury, "Ultrafast pulse train micromachining," Spie Proceedings Vol 4978 (2003) pp. 138-146	
V		Santiago Camacho-Lopez, "Single-pulse and 'pulsetrain-burst' (>100MHz) effects in ultrafast laser processing of metals, glasses, and bio-tissues" OSA CLEO 2003 in Baltimore, MD (May) Paper CFF2	

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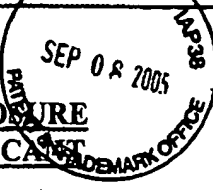
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		L. Sudrie, "Writing of permanent birefringence microlayers in bulk fused silica with femtosecond laser pulses" Optics Communications 171 (1999) 279-284	
		Roberto Osellame, "Femtosecond writing of active optical waveguides with astigmatically shaped beams" J. Opt. Soc. Am. B Vol. 20 No 7/ July 2003 p 1559-1567	
		John D. Mills, "Embedded anisotropic microreflectors by femtosecond-laser nanomachining" Applied Physics Letters Vol. 81, No. 2 July 2002, p196-198	
		A. Bado, "Manufacturing of High quality Integrated Optical Components by Laser Direct-Write (M103) ICALEO 2003 in Jacksonville, FL. Laser Microfabrication, LMF Section C p 18-26	
		L. Sudrie, "Study of damage in fused silica induced by ultra-short IR laser pulses" Optics Communications 191 (2001) 333-339	
		P. G. Kazansky, "Self-organized form birefringence in glass irradiated by intense ultrashort light pulses" OSA CLEO 2003 in Baltimore, MD (May) paper CW11	
		Henry Haefke, "Microtexturing of functional surfaces for improving their tribological performance" Proceeding of the International Tribology Conference, Nagasaki, 2000 p 217-221	
		H.K. Tonshoff, "Structuring silicon with femtosecond lasers," SPIE Proceedings Vol. 4274 (2001) p 88-97	
		J. Bonse, "Femtosecond laser ablation of silicon-modification thresholds and morphology," Applied Physics A 74, 19-25, (2002)	
		Jurgen Reif, "Ripples revisited: non-classical morphology at the bottom of femtosecond laser ablation craters in transparent dielectrics," Applied Surface Science 197-198 (2002) 891-895	

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✓		Egidijus Vanagas, "Surface nanostructuring of borosilicate glass by femtosecond nJ energy pulses," Applied Physics Letters Vol.82, No. 17, 28 April 2003, p.2901-2903	
		R.S. Taylor, "Femtosecond Laser Fabricated Nanostructures in Silica Glass," OSA CLEO 2003 in Baltimore, MD (May). Paper CWA18	
		R.S. Taylor, "Ultra-High Resolution Index of Refraction Profiles of Femtosecond Laser Modified Silica Structures," OSA CLEO 2003 in Baltimore, MD (May). Paper CWI3	
		David Ashkenasi, "Processing of multi-layer systems using femtosecond, picosecond, and nanosecond laser pulses at different wavelengths," SPIE Proceedings Vol. 4637 (2002) p169-179	
		Alexei K. Zaitsev, "New low temperature femto-second laser annealing method for TFT fabrication technology," OSA CLEO 2003 in Baltimore, MD (May). Paper CThM34	
		Ian Jones, "Laser Welding of Plastics-Process Selection Software (601) ICALEO 2003 in Jacksonville, FL. Laser Materials Processing LMP Section A p 76-84	
		Ian Jones, "Laser Welding of Plastics-Process Selection Software (601) ICALEO 2003 in Jacksonville, FL. Laser Materials Processing LMP Section A p 76-84	
		Nicole M. Woosman, "A Study of the Effect of Weld Parameters on Strengths of Clearwelede Thermoplastics (602) ICALEO 2003 in Jacksonville, FL. Laser Materials Processing, LMP Section A p 85-93	
		Kulik et al, <i>Short and ultrashort laser pulses: an upcoming tool for processing optical and semiconductor materials</i> , Proc. SPIE Int. Soc. Opt. Eng. 5339, 35 (2004)	
		Said et al, <i>Manufacturing by laser direct-write of three-dimensional devices containing optical and microfluidic networks</i> , Bado, Said, Dugan, Translume, Proc. SPIE Int. Soc. Opt. Eng. 5339, 194 (2004)	
		Ostendorf et al, <i>Ablation of metals and semiconductors with ultrashort pulsed lasers: improving surface qualities of microcuts and grooves</i> , Proc. SPIE Int. Soc. Opt. Eng. 5340, 153 (2004)	
		Watanabe et al, <i>Fabrication of photonic devices with femtosecond laser pulses</i> , Proc. SPIE Int. Soc. Opt. Eng. 5340, 119 (2004)	
✓		Femtosecond laser machining of integrated capillaries in microfluidic devices, Tyson N. Kim Photonics West Poster Session 5340-31 Only, no paper submitted	

Examiner Signature		Date Considered	6/15/06
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**Complete if Known**

Application Number	10/813,269
Confirmation Number	5356
Filing Date	March 31, 2004
First Named Inventor	Lawrence SHAH
Art Unit	2828
Examiner Name	Dung T. NGUYEN
Attorney Docket Number	A8700

Sheet	4	of	4
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
W		A. Ostendorf et al, "Abalation of metals and semiconductors with ulstrashort-pulsed lasers: improving surface qualities of microcuts and grooves", Proc., SPIE vol 5340 (2004) pp. 153-163	
		W. Watanabe et al, "Fabrication of photonic divices with femtosecond laser pulses", Proc SPIE, vol 5340 (2004) pp. 119-126	
		A. Said et al, "Manufacturing by laser direct-write of three-dimensional devices containing optical and microfluidic networks", Proc SPIE vol. 5339 (2004) pp. 194-204	
		C. Kulik, "Short and Ultrashor t Laser Pulses: An upcoming Tool for Processing Optical and Semiconductor Materials", Proc. SPIE vol. 5339 (2004) pp. 35-48	

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**INFORMATION DISCLOSURE**  
**STATEMENT BY APPLICANT**

*(use as many sheets as necessary)*

Sheet	1	of	1
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## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
pw		US 4,718,417		01/12/1988	Kittrell et al
		US 2003/0156605	A1	08/21/2003	Richardson et al
		US 2003/0025911	A1	02/02/2003	Walmsley et al
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		US 5,609,780		03/11/1997	Freedenberg et al
		US 2002/0071901	A1	07/13/2002	Ringeisen et al
		US			
		US			
		US			

## FOREIGN PATENT DOCUMENTS

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